

SDSS System Documentation Requirements

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December 12, 2001

OVERVIEW

These requirements have been established to provide sufficient documentation at Apache Point Observatory (APO) for the efficient maintenance and repair of mechanical, electrical, and electronic sub-systems used to support SDSS observing operations.

REQUIREMENTS

- 1) The SDSS Telescope Engineer shall be responsible for maintaining a documentation library at APO for all mechanical, electrical, and electronic sub-systems associated with SDSS observing operations. This does not include computing hardware associated with data acquisition operations.
 - 2) Documentation shall be provided to the SDSS Telescope Engineer when new systems are delivered to APO:
 - a. First set of documentation can be submitted in draft form;
 - b. As-builts shall be updated after installation, but before new projects begin;
 - c. Documentation should be delivered in hard copy and electronic form whenever possible.
 - 3) The following documentation will be provided and maintained for each SDSS sub-system at APO, at an appropriate level of detail:
 - 1) Overview of the system design and principle of operation
 - 2) Safety issues
 - 3) Performance validation test results
 - 4) Impact on pre-existing systems
 - 5) Design review documentation
 - 6) Calculation and analysis notes
 - 7) System diagrams
 - 8) Operating procedures
 - 9) Troubleshooting procedures
 - 10) Preventive maintenance procedures
 - 11) Test and calibration procedures
 - 12) Assembly drawings
 - 13) Mechanical drawings
 - 14) Electrical schematics
 - 15) Vendor cut sheets
 - 16) Spares inventory (delivered and recommended)
 - 17) Estimated capital cost
 - 18) Other relevant information
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